RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/511,814_

Source: _Pcr_

Date Processed by STIC: _12/14/05_

ENTERED

PCT

RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/511,814   TIME: 14:45:13

Input Set : **A:\211080016U2.TXT**
Output Set: **N:\CRF4\12142005\J511814.raw**

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 4 <110> APPLICANT: McCance, Dennis
 5        Westbrook, III, Thomas F.
 7 <120> TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
10 <130> FILE REFERENCE: 21108.0016U2
12 <140> CURRENT APPLICATION NUMBER: 10/511,814
C--> 13 <141> CURRENT FILING DATE: 2004-10-19
15 <150> PRIOR APPLICATION NUMBER: PCT/US03/12667
16 <151> PRIOR FILING DATE: 2003-04-21
18 <150> PRIOR APPLICATION NUMBER: 60/374,245
19 <151> PRIOR FILING DATE: 2002-04-19
21 <160> NUMBER OF SEQ ID NOS: 21
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 273
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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34 <400> SEQUENCE: 1
35 Ser Thr Thr Ser Pro Thr Glu Glu Thr Thr Gln Lys Leu Thr Val Ser
36  1               5                  10                  15
37 His Ile Glu Gly Tyr Glu Cys Gln Pro Ile Phe Leu Asn Val Leu Glu
38              20                  25                  30
39 Ala Ile Glu Pro Gly Val Val Cys Ala Gly His Asp Asn Asn Gln Pro
40          35                  40                  45
41 Asp Ser Phe Ala Ala Leu Leu Ser Ser Leu Asn Glu Leu Gly Glu Arg
42      50                  55                  60
43 Gln Leu Val His Val Val Lys Trp Ala Lys Ala Leu Pro Gly Phe Arg
44 65                  70                  75                  80
45 Asn Leu His Val Asp Asp Gln Met Ala Val Ile Gln Tyr Ser Trp Met
46                  85                  90                  95
47 Gly Leu Met Val Phe Ala Met Gly Trp Arg Ser Phe Thr Asn Val Asn
48              100                 105                 110
49 Ser Arg Met Leu Tyr Phe Ala Pro Asp Leu Val Phe Asn Glu Tyr Arg
50          115                 120                 125
51 Met His Lys Ser Arg Met Tyr Ser Gln Cys Val Arg Met Arg His Leu
52      130                 135                 140
53 Ser Gln Glu Phe Gly Trp Leu Gln Ile Thr Pro Gln Glu Phe Leu Cys
54 145                 150                 155                 160
55 Met Lys Ala Leu Leu Leu Phe Ser Ile Ile Pro Val Asp Gly Leu Lys
56                 165                 170                 175
57 Asn Gln Lys Phe Phe Asp Glu Leu Arg Met Asn Tyr Ile Lys Glu Leu
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RAW SEQUENCE LISTING                    DATE: 12/14/2005
PATENT APPLICATION:  US/10/511,814      TIME: 14:45:13

Input Set : A:\211080016U2.TXT
Output Set: N:\CRF4\12142005\J511814.raw
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58                180              185              190
59 Asp Arg Ile Ile Ala Cys Lys Arg Lys Asn Pro Thr Ser Cys Ser Arg
60            195              200              205
61 Arg Phe Tyr Gln Leu Thr Lys Leu Leu Asp Ser Val Gln Pro Ile Ala
62     210              215              220
63 Arg Glu Leu His Gln Phe Thr Phe Asp Leu Leu Ile Lys Ser His Met
64 225              230              235              240
65 Val Ser Val Asp Phe Pro Glu Met Met Ala Glu Ile Ile Ser Val Gln
66            245              250              255
67 Val Pro Lys Ile Leu Ser Gly Lys Val Lys Pro Ile Tyr Phe His Thr
68            260              265              270
69 Gln
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 344
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
79       Synthetic Construct
81 <400> SEQUENCE: 2
82 Trp Ser Gln Pro Lys Thr Pro Val Pro Ala Gln Arg Glu Arg Ala Pro
83 1              5                10               15
84 Val Ser Gly Thr Gln Glu Lys Asn Lys Ile Arg Pro Arg Gly Gln Arg
85            20               25               30
86 Asp Ser Ser Tyr Tyr Trp Glu Ile Glu Ala Ser Glu Val Met Leu Ser
87        35               40               45
88 Thr Arg Ile Gly Ser Gly Ser Phe Gly Thr Val Tyr Lys Gly Lys Trp
89     50               55               60
90 His Gly Asp Val Ala Val Lys Ile Leu Lys Val Val Asp Pro Thr Pro
91 65               70               75               80
92 Glu Gln Phe Gln Ala Phe Arg Asn Glu Val Ala Val Leu Arg Lys Thr
93            85               90               95
94 Arg His Val Asn Ile Leu Leu Phe Met Gly Tyr Met Thr Lys Asp Asn
95            100              105              110
96 Leu Ala Ile Val Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr Lys His
97        115              120              125
98 Leu His Val Gln Glu Thr Lys Phe Gln Met Phe Gln Leu Ile Asp Ile
99     130              135              140
100 Ala Arg Gln Thr Ala Gln Gly Met Asp Tyr Leu His Ala Lys Asn Ile
101 145              150              155              160
102 Ile His Arg Asp Met Lys Ser Asn Asn Ile Phe Leu His Glu Gly Leu
103            165              170              175
104 Thr Val Lys Ile Gly Asp Phe Gly Leu Ala Thr Val Lys Ser Arg Trp
105            180              185              190
106 Ser Gly Ser Gln Gln Val Glu Gln Pro Thr Gly Ser Val Leu Trp Met
107        195              200              205
108 Ala Pro Glu Val Ile Arg Met Gln Asp Asn Asn Pro Phe Ser Phe Gln
109     210              215              220
110 Ser Asp Val Tyr Ser Tyr Gly Ile Val Leu Tyr Glu Leu Met Thr Gly
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Input Set : A:\211080016U2.TXT
Output Set: N:\CRF4\12142005\J511814.raw

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111 225                   230              235                240
112 Glu Leu Pro Tyr Ser His Ile Asn Asn Arg Asp Gln Ile Ile Phe Met
113                   245              250                255
114 Val Gly Arg Gly Tyr Ala Ser Pro Asp Leu Ser Lys Leu Tyr Lys Asn
115                   260              265                270
116 Cys Pro Lys Ala Met Lys Arg Leu Val Ala Asp Cys Val Lys Lys Val
117         275                  280                285
118 Lys Glu Glu Arg Pro Leu Phe Pro Gln Ile Leu Ser Ser Ile Glu Leu
119     290                  295                300
120 Leu Gln His Ser Leu Pro Lys Ile Asn Arg Ser Ala Ser Glu Pro Ser
121 305                   310              315                320
122 Leu His Arg Ala Ala His Thr Glu Asp Ile Asn Ala Cys Thr Leu Thr
123                   325              330                335
124 Thr Ser Pro Arg Leu Pro Val Phe
125             340
127 <210> SEQ ID NO: 3
128 <211> LENGTH: 20
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
134        Synthetic Construct
136 <400> SEQUENCE: 3
137 Lys Met Ser Lys Asp Gly Lys Lys Lys Lys Lys Lys Thr Lys Thr Lys
138 1                 5                 10               15
139 Cys Ile Ile Met
140             20
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 164
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
149        Synthetic Construct
151 <400> SEQUENCE: 4
152 Met Ser Glu Pro Ala Gly Asp Val Arg Gln Asn Pro Cys Gly Ser Lys
153 1                 5                 10               15
154 Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu Arg Arg
155             20              25              30
156 Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala Arg Glu Arg
157         35                  40                45
158 Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly Asp Phe Ala
159     50                  55                60
160 Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr Leu Pro Thr
161 65                   70              75                80
162 Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Gly Arg Arg Pro Gly
163             85              90                95
164 Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp His Val Asp
165             100              105                110
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RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/511,814   TIME: 14:45:13

Input Set : A:\21108001602.TXT
Output Set: N:\CRF4\12142005\J511814.raw

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166 Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu Gln Ala Glu
167         115                 120                 125
168 Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys Arg Arg Gln
169         130                 135                 140
170 Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu Ile Phe Ser
171 145                 150                 155                 160
172 Lys Arg Lys Pro
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 495
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
182       Synthetic Construct
184 <400> SEQUENCE: 5
185 Ala Thr Gly Thr Cys Ala Gly Ala Ala Cys Cys Gly Gly Cys Thr Gly
186 1               5                   10                  15
187 Gly Gly Gly Ala Thr Gly Thr Cys Cys Gly Thr Cys Ala Gly Ala Ala
188         20                  25                  30
189 Cys Cys Cys Ala Thr Gly Cys Gly Gly Cys Ala Gly Cys Ala Ala Gly
190         35                  40                  45
191 Gly Cys Cys Thr Gly Cys Cys Gly Cys Cys Gly Cys Cys Thr Cys Thr
192     50                  55                  60
193 Thr Cys Gly Gly Cys Cys Cys Ala Gly Thr Gly Gly Ala Cys Ala Gly
194 65                  70                  75                  80
195 Cys Gly Ala Gly Cys Ala Gly Cys Thr Gly Ala Gly Cys Cys Gly Cys
196             85                  90                  95
197 Gly Ala Cys Thr Gly Thr Gly Ala Thr Gly Cys Gly Cys Thr Ala Ala
198             100                 105                 110
199 Thr Gly Gly Cys Gly Gly Gly Cys Thr Gly Cys Ala Thr Cys Cys Ala
200         115                 120                 125
201 Gly Gly Ala Gly Gly Cys Cys Cys Gly Thr Gly Ala Gly Cys Gly Ala
202     130                 135                 140
203 Thr Gly Gly Ala Ala Cys Thr Thr Cys Gly Ala Cys Thr Thr Thr Gly
204 145                 150                 155                 160
205 Thr Cys Ala Cys Cys Gly Ala Gly Ala Cys Ala Cys Cys Ala Cys Thr
206             165                 170                 175
207 Gly Gly Ala Gly Gly Gly Thr Gly Ala Cys Thr Thr Cys Gly Cys Cys
208             180                 185                 190
209 Thr Gly Gly Gly Ala Gly Cys Gly Thr Gly Thr Gly Cys Gly Gly Gly
210         195                 200                 205
211 Gly Cys Cys Thr Thr Gly Gly Cys Cys Thr Gly Cys Cys Cys Ala Ala
212     210                 215                 220
213 Gly Cys Thr Cys Thr Ala Cys Cys Thr Thr Cys Cys Cys Ala Cys Gly
214 225                 230                 235                 240
215 Gly Gly Gly Cys Cys Cys Cys Gly Gly Cys Gly Ala Gly Gly Cys Cys
216             245                 250                 255
217 Gly Gly Gly Ala Thr Gly Ala Gly Thr Thr Gly Gly Gly Ala Gly Gly
218             260                 265                 270
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RAW SEQUENCE LISTING   DATE: 12/14/2005
PATENT APPLICATION: US/10/511,814   TIME: 14:45:13

Input Set : A:\211080016U2.TXT
Output Set: N:\CRF4\12142005\J511814.raw

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219 Ala Gly Gly Cys Ala Gly Gly Cys Gly Gly Cys Cys Thr Gly Gly Cys
220         275             280             285
221 Ala Cys Cys Thr Cys Ala Cys Cys Thr Gly Cys Thr Cys Thr Gly Cys
222     290             295             300
223 Thr Gly Cys Ala Gly Gly Gly Gly Ala Cys Ala Gly Cys Ala Gly Ala
224 305             310             315                 320
225 Gly Gly Ala Ala Gly Ala Cys Cys Ala Thr Gly Thr Gly Gly Ala Cys
226             325             330             335
227 Cys Thr Gly Thr Cys Ala Cys Thr Gly Thr Cys Thr Thr Gly Thr Ala
228         340             345             350
229 Cys Cys Cys Thr Thr Gly Thr Gly Cys Cys Thr Cys Gly Cys Thr Cys
230         355             360             365
231 Ala Gly Gly Gly Gly Ala Gly Cys Ala Gly Gly Cys Thr Gly Ala Ala
232     370             375             380
233 Gly Gly Gly Thr Cys Cys Cys Cys Ala Gly Gly Thr Gly Gly Ala Cys
234 385             390             395                 400
235 Cys Thr Gly Gly Ala Gly Ala Cys Thr Cys Thr Cys Ala Gly Gly Gly
236             405             410             415
237 Thr Cys Gly Ala Ala Ala Ala Cys Gly Gly Cys Gly Gly Cys Ala Gly
238         420             425             430
239 Ala Cys Cys Ala Gly Cys Ala Thr Gly Ala Cys Ala Gly Ala Thr Thr
240         435             440             445
241 Thr Cys Thr Ala Cys Cys Ala Cys Thr Cys Cys Ala Ala Ala Cys Gly
242     450             455             460
243 Cys Cys Gly Gly Cys Thr Gly Ala Thr Cys Thr Thr Cys Thr Cys Cys
244 465             470             475                 480
245 Ala Ala Gly Ala Gly Gly Ala Ala Gly Cys Cys Cys Thr Ala Ala
246             485             490             495
248 <210> SEQ ID NO: 6
249 <211> LENGTH: 480
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
255       Synthetic Construct
257 <400> SEQUENCE: 6
258 Met Ser Asp Val Ala Ile Val Lys Glu Gly Trp Leu His Lys Arg Gly
259 1               5               10              15
260 Glu Tyr Ile Lys Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Asn Asp
261             20              25              30
262 Gly Thr Phe Ile Gly Tyr Lys Glu Arg Pro Gln Asp Val Asp Gln Arg
263         35              40              45
264 Glu Ala Pro Leu Asn Asn Phe Ser Val Ala Gln Cys Gln Leu Met Lys
265     50              55              60
266 Thr Glu Arg Pro Arg Pro Asn Thr Phe Ile Ile Arg Cys Leu Gln Trp
267 65              70              75              80
268 Thr Thr Val Ile Glu Arg Thr Phe His Val Glu Thr Pro Glu Glu Arg
269             85              90              95
270 Glu Glu Trp Thr Thr Ala Ile Gln Thr Val Ala Asp Gly Leu Lys Lys
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VERIFICATION SUMMARY   DATE: 12/14/2005
PATENT APPLICATION: **US/10/511,814**   TIME: 14:45:14

Input Set : **A:\211080016U2.TXT**
Output Set: **N:\CRF4\12142005\J511814.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date